



30 Mar 1938

The Missouri Miner, March 30, 1938

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, MARCH 30, 1938

NUMBER 26

State Engineering Teachers To Meet In Columbia Friday

Middlebush, Chedsey, Carlton, and Dean Langsdorf to be Principal Speakers.

The program for the Missouri Section of the Society for Promotion of Engineering, which will meet in Columbia April 1 and 2, has been announced by Prof. H. H. Armsby, the president of the society for this year.

The program will start with a banquet at the Daniel Boone Tavern Friday evening, at which Dr. Frederick A. Middlebush, president of the University will speak, his topic being "The University President Looks at the Engineering School". After the banquet the following group meetings will be held: civil engineering, mechanical engineering, electrical engineering, chemical engineering, English, mathematics-physics. Prof. E. L. Johnson of the MSM English Department will be the leader of the English group.

Saturday morning there will be a tour of the engineering laboratories of the School of Engineering, followed by a general meeting at which there will be three principal speakers. Dean Langsdorf of Washington University will speak on "Engineering Council for Professional Development Accrediting Procedures"; Prof. E. W. Carlton of MSM, the president of the Missouri Society of Professional Engineers, will speak on this society and its work; and Director Wm. R. Chedsey of M.S.M. will speak on the topic "Engineering Education in Missouri as a New-comer Sees It".

The organization is composed of the faculties of the three engineering schools of the state, and the meetings rotate among the three different cities in which the schools are located. The officers this year are Prof. Armsby, president; Dr. F. W. Bubb, Washington University, vice-president; and Dr. R. B. Vaile, University of Missouri, secretary.

The meeting next year will be at Washington University in St. Louis.

MUEHLBERGER TO SPEAK ON SCIENTIFIC CRIME DETECTION ON LAST GEN. LECT.

For its final program of the year, the General Lecture's Committee will present C. W. Muehlberger Thursday, April 7th.

The subject of Dr. Muehlberger's lecture, "The Engineering Aspects of Crime Detection" suggests a wealth of interesting angles in the comparatively new field of scientific sleuthing.

The old symbolic Sherlock has traded his checked cap for a mortar board, and has added test tubes, photography, and a thousand other scientific instruments to his bag of tricks.

Less romantic? Well, — maybe. But the loss of romance is well replaced by a certain intriguing in-

Continued on page three

STUDENT COUNCIL HOLDS SPECIAL SESSION

A special council session was held Thursday, March 24. The report was made that Engineers' Day preparations are progressing rapidly under the capable supervision of the different departments and committees in charge.

A report of the Flag Committee revealed that only two flag designs have been submitted to date. A mass meeting is being arranged for the near future to select one of these designs for the school flag. Prompt action in this selection is necessary in order to have this flag on display for Engineers' Day.

The proposed adoption of the "Honor System" was discussed, but sentiment was strongly against such a system. No action was taken toward its adoption.

Sigma Xi Lecture On April 5th

Prof. Jauncey of Washington U. is Guest Speaker For Lecture Next Tuesday.

The School of Mines and Metallurgy Section of the Missouri Chapter of the honorary scientific society of the Sigma Xi takes pleasure in announcing that on April 5 Professor G. E. M. Jauncey of the Department of Physics of Washington University will be in Rolla to discuss "The Structure and Vibrations of the Atoms in Zinc Crystals". The lecture will be held at 8 p. m. in the lecture room of the Chemistry Building. All those interested are invited to attend.

Professor Jauncey is an Australian by birth but came to this country in 1914 and has been connected with Washington University since 1920. He is internationally known for his researches dealing with the scattering of x-rays from crystals and for his studies of atomic structure. He is the author of more than 60 papers and a very successful book "Modern Physics". Quite recently he has gained considerable press publicity because of his un-orthodox conclusions concerning the weight of one of the fundamental units of matter, the electron.

Continued on page six

BELL TELEPHONE REGIONAL MANAGER FOR INSTITUTE

"Communication in 1938" will be the subject of an address to be given before the Institute of Business and Industrial Relations Conference by Shields R. Smith, General Manager of the Eastern Missouri and Arkansas area of the Southwestern Bell Telephone Company was born in 1881 on a farm near Boonville, Missouri. His first telephone job was at Sedalia in 1906, and his subsequent thirty-two years of experience have covered all phases of operations in the state.

In 1907 he promoted, built, and sold rural telephone lines, drawing the plans for them on schoolhouse blackboards at rural meetings. He became manager at Sedalia in 1910 and several years later was put in charge of the long-distance division

Continued on page three.

Miners Take Third Place in M. I. A. A. Meet

Eddie Ballman and Julian Jackson Star For Miners In Indoor Track Meet.

Showing an unexpected strength and power, fifteen members from the M. S. M. track team placed third in the Missouri Intercollegiate Athletic Association meet in the Brewer Field House at the University of Missouri at Columbia, last Friday night, March 25.

The five schools which entered into competition broke three records and tied one. The Cape Girardeau track squad amassed a total of 54 points to come out on top in the conference meet. Springfield was next with a total of 34 points. The fifteen men from Rolla totaled 27 points to take third place. Maryville was fourth with 9 points, and Warrensburg fifth with 8 points. Kirksville failed to enter a squad in the meet. Marion Donald set two records, one in the mile—4 minutes and 35 seconds; and in the two mile—10 minutes and 10.5 seconds. Another record broken was the broad jump by William McLane of Cape Girardeau, who broad jumped 23 feet to break the existing record of 22 feet and 7 1/4 inches. The two Rolla men turning in the best performance were Edward Ballman and Julian Jackson, who tied with R. Goddard of Cape in the High Jumping event. They both cleared 6 feet but both failed when the bar was raised. Edward Ballman in the 880 Yard Run took the lead at the first and remained there to finish well ahead of his nearest competitor. The time for this event was 2 minutes 6.6 seconds, but failed to break the existing record.

Results of the meet were as follows:

60 Yard Dash — First, McLane, Cape Girardeau; Second, Taylor, Rolla; third, Bass, Springfield; fourth, Ladd, Rolla. Time 6.4 seconds.

60 Yard Low Hurdles—First, McLane, Cape Girardeau; second, McLaughlin, Maryville; third, Norman, Cape Girardeau; fourth, Mitch, Rolla. Time: 7.1 seconds.

Continued on page three.

A. S. M. E. DISCUSSES ENGINEERS' DAY PLANS

The A. S. M. E. met a week ago last Tuesday night to discuss the part the society will take in the exhibition for Engineers' Day and the exhibits that will be available. Each exhibit will be in the care of one or more students who will answer any questions relative to the exhibit and explain its operation and manufacture to the visitors. Some of the possible exhibits discussed not listed on the present program are some samples from stock from Air Reduction Sales Company, assorted displays from Linde Air Products Co. and several other companies, a demonstration of a small gasoline motor belonging to McKissick, a new type of vise belonging to Bert Frye, two or three small steam engines, a small steam turbine, samples of tools made in machine shop and forge shop and their making, a working model pump from the Pomona Pump Co., and several other tentative displays.

Chairman Rhodes urged the members of the society to keep in mind the Missouri Academy of Science meeting of April 21, 22, and 23 from a display standpoint.

M.S.M.

Simons of Mo. Pac. Addresses C. E.'s on Flood Control

Shows How Flood Control is Related To Surface Drainage

Mr. P. T. Simons, Asst Engineer of the Mo. Pacific Railroad spoke to the local chapter of the A.S.C.E. on "Observation of Flood Control as an Element of Surface Drainage," last Tuesday evening, March 22.

The meeting was called to order by President E. B. Lanier and a discussion of Engineers' Day ensued. Dr. Bardsley, who is in charge of the C. E. exhibit, presented the proposed program.

Prof. R. F. Ratliff, formerly of the Physics Dept., introduced the speaker, a former student of his at Fairmount Academy in 1895 where Prof. Ratliff was Professor of Science.

Mr. Simons gave a short word picture of the present railroad predicament and set forth some of

Continued on page six

Carlton Announces Engineering Section Program

Two Prominent New York Engineers To Speak on Academy Program

Professor E. W. Carlton, chairman of the Engineering Section of the Missouri Academy of Science, has arranged an outstanding program for their Fourth Annual meeting at M. S. M. Besides several prominent engineers of Missouri who have consented to speak, Mr. L. A. Hawkins of the General Electric Company and Mr. D. H. Killeffer of the Industrial and Engineering Chemistry Engineering Journal will journey to Rolla from New York to give us and the attending engineers the benefit of their engineering researches.

The following addresses have been scheduled for Friday afternoon:

Associate Metallurgists J. Bruce Clemmer and F. D. DeVaney of the U. S. Bureau of Mines Experiment Station at Rolla will speak on "Present Trends in Mineral Dressing."

"Improvement of the Missouri River for Navigation" by Col. C. L. Sturdevant, Division Engineer, Corps of Engineers, Missouri River Division at Kansas City, Mo.

"Fundamental Research and Industrial Progress" by L. A. Hawkins, Executive Engineer, Research Laboratory, General Electric Company, Schenectady, New York.

Mr. Chas. A. Freeman, Ceramic Engineer with the A. P. Green Fire Brick Company, will present an address on "New Developments in Ceramic Engineering."

The next morning the following speeches will be presented:

"New Developments in Diesel Engine Design" by Rudolph Schlatter, Chief Engineer of the Busch-Sulzer Bros. Diesel Engine Company, St. Louis.

Mr. John I. Parcel, of Sverdrup and Parcel, St. Louis Consulting Engineers, will speak on "The Importance of Ductility of Material in the Design of Statically Indeterminate Structures."

"Underground Water Blocking with Flotation Slime" by W. W. Weigel, Mining Engineer, St. Joseph Lead Company, Bonne Terre, Missouri.

An address by D. H. Killeffer, of

Continued on page three

What? Whel? Where?

WEDNESDAY, MARCH 30

Blue Key, 7:30 p. m. Club Room
A. I. E. E., 7:30 p. m. 104 Norwood
Phi Kappa Phi, 7:00 p. m. 101 Norwood

THURSDAY MARCH 31

S. A. M. E., Capt. E. E. Itschner on "Alaska" .. 104 Norwood
Glider Club, 7:30 p. m. Mech.

FRIDAY, APRIL 1

Photographic Club, 7:30 p. m. Club Room

TUESDAY, APRIL 5

Sigma Xi, 8:00 p. m. Chem. Lect. Room.

WEDNESDAY, APRIL 6

Alpha Chi Sigma, 7:00 p. m. Chem. Bldg.
Student Council, 7:30 p. m. Club Room
Mo. Mining and Met. Ass'n, 8:00 p. m. Chem Bldg.
Director Chedsey on "Engineering Responsibility".

Hospital News

This week's hospital list has its usual quota of cold and tonsillitis victims, Everett Sharp, Andrew Block, Ralph Schrader, John McCloskey, and Alden Hacker all spent a day or two in the hospital last week.

The hospital lists two other students, Elwood Conary, suffering from an infection in his leg, and Paul Decker, who has a case of acute arthritis.

"Buddy" Clayton, who has been confined to his home with typhoid fever, and a resulting infection for the past month, started back to school this week.

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FACULTY ADVISER DR. J. W. BARLEY

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UPON LEAVING

"Parting is such sweet sorrow . . . etc", is recalled strangely as I put this my last issue of the Miner to press.

Since last April I have tried to put into the Miner news and features that I thought would benefit and be of interest to the Missouri School of Mines as a whole. Paths have been crossed and some enmity incurred. My only argument as I turn over my job to someone else is that I made an honest effort to advance the Miner and the 'Miners'. The controlling factor of the Miner policy has been "What is best for M. S. M.?" I make no apologies and have no regrets for the policy under which this paper has been published.

As a parting gesture I would like to make the following suggestions to the under classmen of the Missouri School of Mines:

1. Strengthen the Student Council and thus bring about a unified student body.
2. Give more support to the Miners athletic teams.
3. Make the State Legislature "Missouri School of Mines" conscious.
4. Take advantage of your opportunity and prepare yourself to carry the name 'Miner' into a world that expects just a bit above the average from you because you are a 'Miner'.

The Editor
John R. McCloskey

FOOD FOR THOUGHT

Are You Educated?

It is evident that most of the Miners are either lazy or lacking of confidence in their thinking ability—or are just introverts. In any case, not many of them will join the written 'bull' session. There are some, however, that have kidded themselves into believing that they have thought about all that is worth thinking and that they have little to learn from either their fellow students or from their profs.

An eminent psychologist stresses an open mind as the most important essential of an educated man. Open minds are amazingly scarce, even in an engineering institution where scientific reasoning and, hence, logical conclusions are taught. You can just about count on your fingers the fellows who can put aside THEIR point of view, so that they can examine ANOTHER'S view for value—unbiased

by their own. Some can go a long ways towards being openminded—and some have—but, the 'know it all' can't even begin. An open-minded fellow usually WANTS to be open-minded and puts forth to do so. HIS only hindrance is man's kind's long inherited ego—man's natural favoring of himself. A fellow who is certain of his openmindedness put forth NO effort: HIS hindrance is three-fold,—ego personality defects, and laziness. He never does attain any noticeable degree of open-mindedness.

In your next 'bull' session try out your receptiveness for the other fellows thoughts.

Anonymous in Person.

M.S.M.

Judge Groot—So you tried to drive by the officer after he blew his whistle?

Petzinger—Your honor, I'm deaf.
Judge Groot—That may be true, but you'll get your hearing in the morning.

DANIEL COWAN JACKLING

A Biography

Forty years ago a young engineer made an examination of a group of mining claims in Utah, reporting that the property embraced a large body of copper ore, low in grade, but which could be mined profitably on a large scale. Although his employer chose not to go further, this event was one of the most important in the history of copper mining, for the engineer later proved the correctness of his conclusion by the success of the famed Utah Copper Company. He was D. C. Jackling, then a recent graduate of Missouri School of Mines, now (1938) president-elect of the American Institute of Mining and Metallurgical Engineers.

Daniel Cowan Jackling was born August 14, 1869, in Hudson Township, Bates County, Missouri, the son of Daniel and Lydia Jane (Dunn) Jackling. He attended country schools until he was sixteen, and three years later studied for a year at the State Normal School. At first determined to own a farm, his ambition presently shifted to engineering, as a result of which he entered the School of Mines at Rolla. He worked his way through this school dependent largely on his own efforts financially, yet distinguished himself in his studies. So satisfactory was his work that for 2 years he was assistant in the Chemistry Department.

In 1892, armed with a degree in metallurgy, a good foundation in chemistry and mine engineering, and with valuable vacation-time railroad engineering experience, he set out for Cripple Creek, Colorado. A job as assayer's assistant led to one in a mill, where he presently became chemist. As such, he made the acquaintance of Captain J. R. DeLamar, a mine operator. Eventually, examination work for DeLamar led him to Bingham Canyon, Utah, as already related.

Though his principal lost interest in the 9,000,000 tons of ore assaying only 2 per cent copper, Jackling did not. Four years later, in 1903, he secured an option on the property, and took his estimates and plans to another Cripple Creek acquaintance, Charles M. MacNeill. The latter, with associates, chose to gamble on their faith in the engineer. In two years the newly organized Utah Copper Company, under the management of Daniel Jackling, had a mine under development and a 300-ton mill turning over. In both, the results bore out estimates.

A man's bold dream had been realized. Utah Copper stirred the imagination of every mining man, and stimulated interest in many other long-known, poorly regarded, low-grade copper deposits. These, re-examined in the light of Jackling's achievement, came into production one after the other, changing completely the copper mining map of the Americas. In some of them, too, Utah Copper was interested. Nevada Consolidated, Chino, and Ray complete the list of great copper mines which sometimes have been referred to as the "Jackling group."

Although the presidency of Utah Copper Company has required much of him, Mr. Jackling has had time, energy, and ability to spare for activity in other mining fields than copper, other industries besides mining, and other interests besides work. He has been concerned in gold mining in Alaska, and is president of the Mesabi Iron Company. He is president of the Gallup American Coal Company, which operates the largest coal mine in New Mexico, and of the railroad companies that serve the mines at Bingham, Utah, Ray, Arizona, and Ely, Nevada. He is chairman of the Operating Committee and a director of

Continued on page five

YOU KNOW THEM TOO

By Ray E. Vaughn

This week I wish to tell you something about a man who is an all-around athlete and scholar. He is a Kappa Alpha senior civil, JOE MURPHY.

Joe graduated from University City High School in '33, and entered M. S. M. in September, 1934. He has lettered in football all four years and went out for track in his freshman year. During his first year he was in the upper one fifth of his class and served as president of the class. During his sophomore year he became a member of the Rollamo Board and the Blue Key, was a

Cadet Corporal in the R. O. T. C., and was awarded a Phi Kappa Phi book plate for ranking in the upper 15% of his class the year before. Last year Joe became a member of the A. S. C. E. and Tau Beta Pi, was Advertising Manager of the Rollamo

Board, was vice-president of the Independents, was awarded another Phi Kappa Phi book plate for ranking in the upper 15% of the class during his sophomore year, and was a Student Assistant in the C. E. Department. This year he is Business Manager of the Rollamo Board, Recording Secretary and Treasurer of the Blue Key, vice-president of the Student Council, a member of the Phi Kappa Phi and the Kappa Alpha Fraternity, and is a Student Assistant in the C. E. Department. He also received another book plate this year from the Phi Kappa Phi for ranking in the upper 10% of his class last year. Another honor was deservedly bestowed upon Joe this year. He was awarded third prize by the Missouri Asphalt Association for a paper on "Bituminous Highway Construction."

Some time ago Joe was employed by the Phillips Petroleum Company to go to work after graduation. The odds are all for his success.



Twenty-Three Years Ago

March 30, 1915

By Ray E. Vaughn

The following Tuesday night a big banquet, in honor of the newly appointed Director D. Copeland and those instrumental in the passing of the Buford-Harris Bill, was to be given by the Rolla Chamber of Commerce Club and the faculty and students in Mechanical Hall. Elaborate plans were being made by various committees. The invitation committee had arranged for the presence of some of the best speakers in the state, the entertainment committee was promising high-class entertainment, and the banquet committee was preparing a menu excelling all but the best. Dr. S. L. Baysinger was a member of the invitation committee, Prof. L. E. Garrett was a member of the music committee, and Prof. C. R. Forbes was a member of the banquet committee. Tickets were \$1.50.

Professor Frame, a new man on the faculty that year, was placed in charge of a large amount of the work incurred by the new electric-

al engineering curriculum, which was installed since the newly authorized power of M. S. M. to confer degrees in electrical engineering.

After taking an exam in chemistry, sophomore George Kublin wrote on an English paper: "The English language is the result of corrosion of French and Anglo-Saxon."

Last Saturday Director Copeland, Dr. S. L. Baysinger, and Mr. Kahlbaum attended a meeting of the Executive Committee of the School of Mines at the Planter's Hotel in St. Louis.

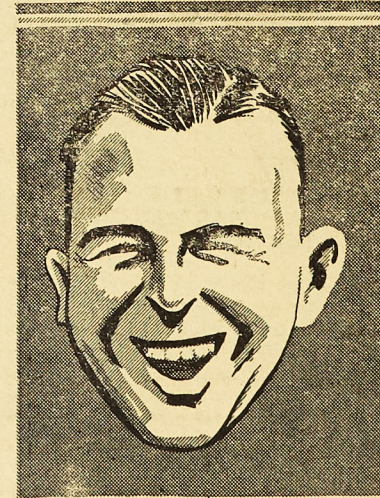
At this young age of the Missouri Miner an organization called "Grubstakers" submitted each week a collection of all news which would be of interest to the readers. This step was taken to aid the staff after the realization that the success of a school paper depended upon the cooperation of all of the students in the school. Is this still the attitude of the student body?

M.S.M.

Teacher—Janey, can you explain what is meant by the word "unaware"?

Janey—Yes, ma'am, "unaware" is what you take off just before you put on your pajamas.

Eyes Over The Campus



A. B. (HAPPY) CHANDLER

GOVERNOR OF KENTUCKY,
WORKED HIS WAY THROUGH
HIGH SCHOOL, COLLEGE
AND LAW SCHOOL BY SELL-
ING NEWSPAPERS, DOING
FARM WORK, OIL FIELD
LABOR, COACHING FOOTBALL
AND BASKETBALL!

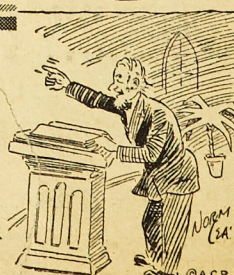


BUCKSHOT

COLLEGE NEWS
RECEIVES ABOUT
3%
OF THE SPACE IN
THE NATION'S
PAPERS

#130,000 SERMON

IN 1880 DOCTOR
ATTICUS G. HAYGOOD
OF EMORY UNIVERSITY
PREACHED A SERMON
ON "THE NEW SOUTH"
WHICH WAS SO WELL
RECEIVED THAT GEO.
I. SENEY OF NEW YORK
CONTRIBUTED \$130,000
TO EMORY!



SPORTS PAGE

COMPTON SAYS

Items picked up from the M. I. A. A. Indoor Meet at Columbia last Friday night:

The Miners came through with unexpected showing in their first competition of the year. While none of the men were outstanding, there were enough seconds and thirds gained to give Coach Gale Bullman's charges third place over Warrensburg and Maryville. For so early in the season the Engineers came through in grand style.

Eddie Ballman, senior half-miler, won his event without much trouble, thus giving the sports writers their first surprise of the evening. Ballman had only been out for a week before the meet and was not expected to show much in the indoor classic. Going into his third lap Eddie was striding behind Rice of Warrensburg. As they swept into the back stretch, which is under the stands and away from vision, Eddie stepped up his stride. Coming out on the far side Eddie was about five strides in the lead. We won't say that its dirty work, but its awful hard to pass a man on the curve and make up ten strides in the bargain.

The Miners would have probably added a couple of points to their total if George Fort had participated in the half-mile. Fort put out all he had in the mile and thought that competition in the half would be to much. As it turned out Rice was far behind when Ballman crossed the finish line.

Corwin Barrett ran in the 440-yard race but was not in the money due to a foot injured last week in practice. Barret should do all right in the six dual meets lined up for the next two months.

Russ Youngbluth performed quite creditably in the low hurdles but was forced out of the finals when he turned his ankle. The injury was not serious and Russ will be back on the track in a few days. Incidentally Russ took a second in the high hurdles back of Bill McLane, ace Cape star, who won both timber-topping events.

Cape Girardeau fans were surprised when their football idol, Wayne Goddard, was unable to clear the six-foot mark in the high jump and had to share a first place tie with Julian Jackson of the Miners. The height was 5-feet 11 7-8 inches.

For the past several years the Springfield papers have been building up Herbert Bench as the loop's fastest distance star. However he didn't live up to his reputation in the indoor meet as Fort trimmed him in the mile and Tucker in the two-mile. Incidentally Donald was pushed to two new records in winning these 2 events. The mile time was 6.5 seconds under the old mark, while the two-mile time was 14.4 seconds under the established time.

We would say that both Fort and Tucker were laying for Bench. Nice work boys!

The 50-yard dash surprised many of the boys who thought the Miners didn't have any dash men. I was one of 'em. Otis Taylor wound up in second place after leading the greatest part of the distance while Harley Ladd was fourth. Taylor lost the race in the last stride.

Clark Romine, Lambda Chi pledge, was doing all right in the pole vault until he fell on the edge of the pit on a jump and sprained his ankle. In the final results he tied with Carl Lintner, Miner football star, and McLane of Cape. The height was 11-feet 9 inches.

With the advent of the outdoor meets, which will get underway on April 8 at Westminster College, the Miners should add much needed strength. The javelin and discus should give that added strength needed to annex the contests that Coach Bullman has lined up.

Kirkville did not compete in the meet, due to a lack of a track coach. Bulldog officials assured us that they would be in the outdoor affair, however. A new coach was appointed this week.

Fritz Fautot, recently resigned football mentor at Kirkville, is now attending Missouri University. According to Fautot he has no plans as yet for next fall, and may leave the coaching game for good. Incidentally the new Bulldog coaches will not report until June 1.

The Warrensburg Mules have been having spring football practice for the last three weeks and are showing up well according to Coach Carl Voltmer. Voltmer believes that the Mules will not be as strong as they were last fall.

Our nomination for the title of the "Miner's No. 1 Sport Fan" goes to Charlie Tucker. Charlie, who is the popular manager of the Tucker Dairy, has attended Miner games for the past 10 years. No use saying that he was on hand for the indoor meet.

MINERS TAKE THIRD PLACE IN M.I.A.A. MEET

Continued from Page One

Ties meet record.

60 Yard High Hurdles—First, McLane, Cape Girardeau; Second, Youngbluth, Rolla; third, Norman, Cape Girardeau; fourth, Millsap, Springfield. Time: 8 seconds.

440-Yard Dash—First, Kirn, Cape Girardeau; second, Bass, Springfield; third, Keith, Springfield; 4th Kiehne, Cape Girardeau. Time: 53.7 seconds.

880 Yard Run—First, Ballman, Rolla; second, Rice, Warrensburg; third, Keith, Springfield; fourth, Taber, Maryville. Time: 2 minutes, 6.6 seconds.

Mile Run—First, Donald, Springfield; second, George Fort, Rolla; third, Bench, Springfield; fourth, Mudd, Maryville. Time: 4 minutes, 35 seconds.

Two-Mile Run—First, Donald, Springfield; second, N. Tucker, of Rolla; third, Bench, Springfield; fourth, Mudd, Maryville. Time 10 minutes, 10.5 seconds.

Broad Jump—First, McLane, Cape Girardeau; second, Giddings, Cape Girardeau; third, White, Warrensburg; fourth Taylor, Rolla. Distance: 23 ft.

High Jump—First, Jackson, Rolla and Goddard, Cape Girardeau, tied for first and second; third, Teagarden, Warrensburg; 4th, Yourek, Maryville and Ostus, Maryville, tied. Height: 5 feet, 11 7-8 inches.

Pole Vault—First, Baker, Springfield; second, Harcastle, Cape Girardeau; third and fourth; Lintner, Rolla, Romine, Rolla, and McLane, Cape Girardeau, tied. Height: 11 feet, 9 inches.

Shot-Put—First, Richmond, Cape Girardeau; second, Binkley, Cape Girardeau; third, Fox, Springfield; fourth, Carr, Warrensburg. Distance 42 feet, 11 1/2 inches.

Mile Relay—First, Cape Girardeau; second, Springfield; third, Maryville; fourth, Rolla. Time: 3 minutes, 46.6 seconds.

STUDENT BODY TRACK MEET NEXT FRIDAY AND SATURDAY

A track meet, which is open to everyone, for the school championship will be held this Friday and Saturday, April 1 and 2. A trophy will be awarded the fraternity winning the most points. Independents may enter to compete for a medal, but not for the trophy.

The schedule of events is:
1 mile run
440 yard run
100 yard dash
High hurdles—120 yards
880 yard run
220 yard dash
2 mile run
Low hurdles—220 yards
880 yard relay
Shot put
High jump
Broad jump
Javelin throw
Discus throw
Pole vault

Preliminaries in the 100 and 220 yard dashes and both the high and low hurdles will be run off Friday afternoon at 4:30. The meet will open Saturday at 2:00.

CARLTON ANNOUNCES ENGINEERING SECTION PROGRAM

Continued from page one.

New York City, Contributing Editor to Industrial and Engineering Chemistry, on "Recent Advances in Chemical Engineering."

Speeches on each of the several major fields of engineering will be made, and every student should plan to attend at least the lectures on subjects dealing with the course of study which he is pursuing. To facilitate attendance of students, excuses will be given to students desiring to attend any specific lecture.

Bell Telephone Regional Manager For Institute

Continued from page one.

supervising construction and operation of toll lines from St. Charles, Missouri, west to Kansas. During this period he represented the company in its negotiations with other telephone companies as well as before the state public service commission.

In 1925 Smith was put in charge of the Western Missouri area, with headquarters at Kansas City, and two years later was moved to St. Louis as division commercial superintendent. He became General Manager in 1929.

DRINK Dr. Pepper

THE TELEPHONE PUTS TWO AND TWO TOGETHER

Long Distance Rates Are Cheaper After 7:00 P. M.

And All Day Sunday

United Telephone Co.

Muehlberger To Speak on Scientific Crime Detection On Last General Lecture.

Continued from page one

terest and the creation of new methods of approach.

In addition to being the director of the Cook County Coroner's Court Laboratory, Dr. Muehlberger is also Ass't. Prof. of Toxicology and Pharmacology at Northwestern University's Medical School; a lecturer in Toxicology at the University of Illinois Medical School; and is consulting expert to the Chicago Police Dept. on bombs and explosions.

See next week's paper for more information.

PROGRAM

ROLLAMO THEATRE

Sat. and Sun. Matinees 1:30 & 3:30
Matinee Every Tuesday 2:30

Selected Short Subjects on Every Program

Friday, April 1

Return Engagement of
"NAUGHTY MARIETTA"

starring Jeannette MacDonald and Nelson Eddy

Shows 7 and 9 Adm. 10c and 25c

NOTE—Bring this Ad.—This Ad and 15c will admit you to see "Naughty Marietta" Friday, April 1

Sat., April 2, Matinee and Night
Double Feature Program

The Jones Family in

"BORROWING TROUBLE"
and Charles Sterrett in

"THE OLD WYOMING TRAIL"
1st Matinee Starts 1:30 Adm 10c-15c

1st night show 7 Adm. 10c & 25c

Sun. and Mon., April 3 and 4
Shirley Temple in

"REBECCA OF SUNNY-
BROOK FARM"

with Randolph Scott, Jack Haley,
Gloria Stuart

Tues., April 5, Matinee and Nite
Annabella in

"DINNER AT THE RITZ"

Wed. and Thu., April 6 and 7
George Brent and Olivia DeHavilland in

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AFTER THE GAME—

AFTER THE SHOW—

AFTER THE DANCE—

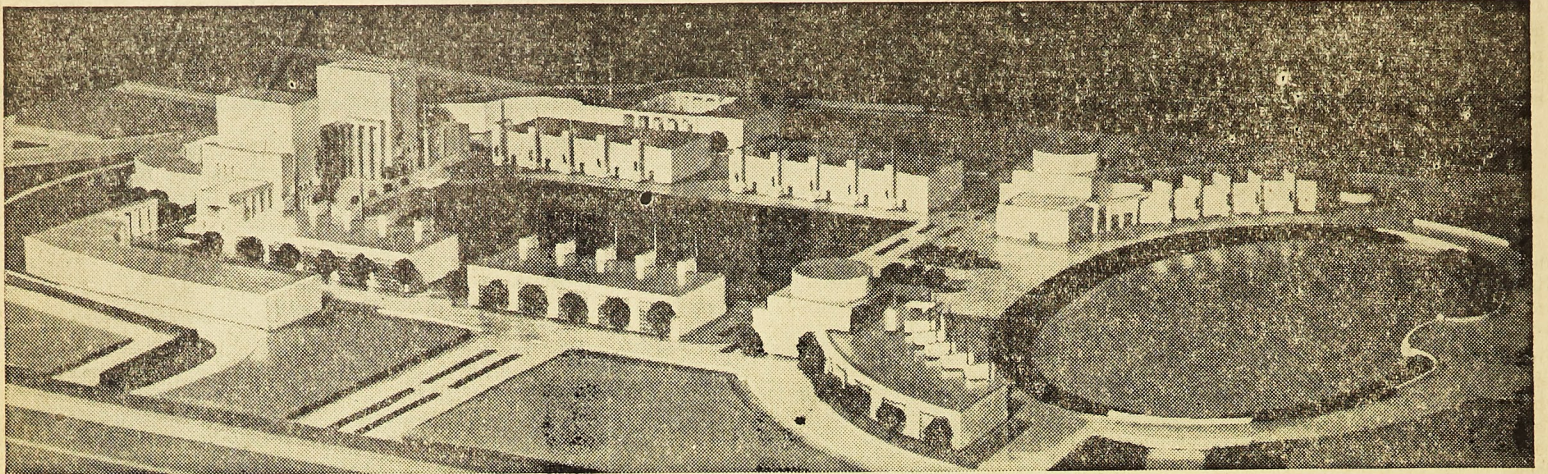
REMEMBER

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Uncle Sam's "Peace Table" at New York World's Fair 1939



NEW YORK—(Special)—Giant steamshovels are tearing away at the soil and hundreds of men are working on the \$3,000,000 Federal Area for the New York World's Fair where Uncle Sam will preside, figuratively, at a 1939 world peace table that is expected to have a lasting beneficial effect

upon international relations.

Uncle Sam will be represented by a huge Federal Building which will be placed at the head of a Hall of Nations, where foreign countries, 64 of which have agreed to participate, will show their official exhibits at the Fair.

All the buildings will be grouped

around an enormous parade ground which will be the scene of parades, pageants, drills and other colorful events of a like nature, and where many thousands of Fair visitors will gather on opening day to listen to a speech by President Roosevelt. The architect is Howard L. Cheney.

This structure, which is now being built under the direction of the United States New York World's Fair Commission, will contain exhibits interpreting the background and functions of the legislative, judicial and executive branches of government.

Secretary of Agriculture Henry

A. Wallace is Chairman of the Commission and its membership includes Secretary of Commerce Roper, Secretary of Labor Perkins, Senators Wagner and Copeland of New York and White of Maine and Representatives Merritt and Wadsworth of New York and McReynolds of Tennessee.

Wonderings of a Freshman's Mind

G. N. Frosh

Well, I went to church last Sunday. I have bin goin pretty regular lately, because I have bin tryin to hit one of thim Sunday's when they put out tht bred and wine free. I askt the preacher why they never had communion very often and he said that they used to but it got so that about all the Miners in school here was comin to church there and it was breakin the church to, by wine for all of them. Sum church otta put in a bar and sell the equipment for communion at 10c a drink or sumthin. They could make a lot of munny that way.

There aint goin to be much left to this town if sumbody don't quit startin up engineers clubs. About half the popul what live around here make there livin by holdin up the miners for grub. They have a new club now calld the Forum out behind the Sig Manure house. You can save sum munny by joinin one of the engineers clubs, but I don't no whether it is worth it or not. The milk they give you is so deluded that they have to label the glasses what have milk in them so you can tell it from the water. Sum of the boys told me that they have bin findin horse hares in there meet so you can draw yer own conclusion from that. It aint no wonder that so many of the boys are flunkin out. It is hard enuf to pas when you have a vacuum in yore head, but when you have a vacuum under yore belt too you are beet before you start.

M.S.M.

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Borrowing Trouble

As if Bonnie's wedding isn't trouble enuf, Dad Jones (JED PROUTY, above) adopts the toughest kid in town in "Borrowing trouble," the Jones Family's latest hit. Rollamo Theatre, April 2. The other feature is Charles Sterrettin "Old Wyoming Trail."

M.S.M.

NAVY EDUCATION

There is little realization of the fact that the United States Navy has the largest and best trade school in the country. No single industry requires such a large variety of skilled personnel as does the Navy. The enlisted man masters one or more of some 20 skilled trades.

The day of the old sailor has passed. In his stead we have young men of high standards of citizenship who are experienced in many lines and thoroughly qualified to obtain employment in civil life in the trades in which they have been trained. Our present training schools cover more than 100 subjects including almost every trade from cook to machinist, foundrymen to electrician, carpenter to radioman, plumber to aviator.

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and increase their technical proficiency in order to move up as fast as they prove their worth, knowledge, skill, experience, and reliability.

M.S.M.

Dime Novels

Ditmars, R. L. The Making of a Scientist. New York, Macmillan 1937.

To most people who are at all interested in natural history the name of Raymond L. Ditmars is familiar, yet it is unlikely that many of these people will realize anything of the wide range of subjects which Dr. Ditmars has mastered. "The Making of a Scientist" is the story of an unthwarted curiosity, of the search for the "why" of things. Everything from fire-engines to horned frogs has attracted the attention of this observer and each has yielded its secret to his prying gaze.

This book is the story of his adventures as he investigated the reason for the many things that engaged his attention: Bats and monkeys, hurricanes and automobiles, diamond back rattlers and anteaters, two-toed sloths and 3-toed sloths, bushmasters and the frog, Pseudis Paradoxus, have all furnished him entertainment thru a life which he seems to have enjoyed greatly. Even the escape of a bear from the New York Zoological gardens or an elephant running amok failed to disturb him enough to stop his inquiring as to why they did so.

M.S.M.

NAVAL HUMOR

Visitor: "Where are all these rocks from?"

Guide: "The glacier brought them."

Visitor: "And where is the glacier now?"

Tired Guide: "Gone back after more rocks."

Junk Man: "Any old beer bottles you'd like to sell, lady"

Old Maid: "Do I look as though I drank beer"

Junk Man: "Any vinegar bottles you'd like to sell"

Seaman: "Do you know that sailors in the Navy eat more than the officers."

Visitor: "No why is that?"
Seaman: "There are more of them."

THE SCIENCE REVIEW

By Clyde Cowan

We observe with interest the establishment of the new School of Chemical Engineering at Cornell University. The curriculum consists of a five-year course leading to the new degree of bachelor of chemical engineering. The addition to Cornell was made possible by a gift of \$1,500,000.00 by George F. Baker, and is intended to give its graduates much the same training in the engineering field as is received at the School of Mines. The enrollment in the course has grown so rapidly that while three seniors took the chemical engineering degree in 1932, this year there will be fourteen, and the total number of men registered in all five undergraduate classes is one hundred and fifty-eight. Graduates are accepted by industry as having the equivalent of a master's degree from other universities.

Temperatures close to absolute zero will be obtained by means of a powerful electromagnet described by Dr. Francis Bitter of the Westinghouse Electric and Manufacturing Company. The magnet will be used to restrain the motions of atoms magnetically. This will produce cold close to the absolute zero limit because of the fact that heat is nothing more than motion of the atoms and molecules.

Satisfactory use of glass in manufacturing glass teeth is reported in Science Digest. Two Oslo scientists have developed complete naturally colored dental plated fused inseparably upon their glass foundations, and claim that these new sets are superior from both hygienic and cosmetic aspects.

A fluorescent chalk which glows with a strong green light and is visible at a distance has been developed by Westinghouse. It appears

pears and marks like ordinary chalk under normal light.

Seamless tanks and pipe-lines made of moulded phenolic resin, asbestos composition, are now being manufactured in America. The material is resistant to chlorine, sulphuric acid, and pickling liquors.

A ton of sugar cane will yield approximately 100 pounds of raw sugar and three gallons of rum. Who has an available back yard not in use?

Liquid carbon dioxide was used recently in Germany to extinguish a gob fire in a coal mine. Pressure pipes perforated with drill holes were connected to liquid carbon dioxide cylinders and used to carry the chemical to the seat of the fire, which had been previously confined by a sand seal. The local concentrated cooling effect of the very low temperature carbon dioxide reduced the tendency of combustion and this effect was combined with the reduction of oxygen present.

If the earth were flat, a 200-inch glass telescope would permit a man in San Francisco to read a sign in New York as clearly as the New Yorker reads it from across the street.

—Scientific American.

M.S.M.

Marshall W. Taylor, II, B. S. Mining Engineering '37, is Assistant Engineer of the American Zinc Company, Mascot, Tennessee.

M.S.M.

After a President of the United States makes a trip on a Navy vessel his official flag is sent to the Navy Department for historical purposes.

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DANIEL COWAN JACKLING

Continued from page two

Kennecott Copper Corporation, president and director of Nevada Consolidated Copper Corporation, a director of Braden Copper Company, and president of Butte & Superior Mining Company. In the past he has been director of other industrial and financial enterprises.

During the World War Mr. Jackling was practically drafted at the suggestion of Bernard Baruch into the responsible position of Director of Explosives, later receiving the Distinguished Service Medal for this important public work.

In testimony of his professional reputation, Mr. Jackling has received the foremost awards in the power of his fellow engineers: the gold medal of the Mining and Metallurgical Society of America, in 1926, for his initiation of the development of low-grade mines; the Saunders gold medal of the A. I. M. E., for achievement in mining, 1930; the John Fritz medal of the Engineering Societies, for initiating copper production from low-grade ores, 1933; and now the presidency of the A. I. M. E., of which he has been a member since 1900, and for two terms director.

Good evidence of Mr. Jackling's character, aside from his technical ability, are the things said or written about him, at the time of one or another of the foregoing awards, by the men who know him best: "... possessed initiative, courage, persistence, adaptability ... loyalty to friends and financial acumen ..." "His forceful character, fairness, and sympathetic interest in those who were associated with him resulted in the devotion and admiration of his men, the loyalty of whom towards Jackling became almost a maxim in the copper business."

Hunting has been one of Mr. Jackling's most prized recreations. Shooting quail or hunting deer and wild turkey, he has become familiar with many out-of-the-way



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corners of the Southwest.

He has been active in the affairs of his school, president of the Alumni Association, and in other ways a good friend to Missouri School of Mines.

Mr. Jackling was married in 1915 to Virginia Joliffe, at San Francisco. His home is at Woodside, San Mateo County, California.

—(The Explosives Engineer, Feb. 1938.)

Keeping Up With Science
By Science Service

© Science Service—WNU Service.

Plants, Like Men, Have Their Hours for Heavy Drinking

Durham, N. C. — Plants have "drinking hours" during which their roots absorb more water than is evaporated from the leaves, Dr. Paul J. Kramer of Duke university has determined.

They also have "evaporation hours" during which the amount of moisture given off exceeds that absorbed, he reports to the American Journal of Botany.

Moreover, the hours of maximum absorption and of maximum transpiration, as the reverse process is called, are remarkably constant.

Various types of plants in pots mounted on a revolving table in a greenhouse, apparatus for determining moisture losses and gains and for determining the water content of leaves were the experimental raw material used by Dr. Kramer.

Four Hours After Noon.

The hours of noon to 4 p. m. are the hours of maximum water absorption as well as of transpiration, with the balance in favor of the latter, he reports. But the plant is not the loser, for although both processes reach a low during the night, absorption is carried on at a rate sufficiently faster than the rate of loss during the day to more than make up for the water loss.

The common prickly-pear cactus proved to be the only exception to the general rule of noon to four o'clock as the period of greatest evaporation. This cactus, as well as other cacti, reached its peak in transpiration and absorption between 6 and 10 p. m. During that time transpiration was greater for a time, then absorption forged ahead.

Specimens of loblolly pine, cactus, sunflower and ash were grown in small flower pots equipped with an "auto-cone" irrigator, which controls the water supply automatically and gave the botanist a means of checking on how much water was taken up by the plants. The soil

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Gleanings From Exchanges

By Carl H. Cotterill

Definitions:

A thing of beauty—an expense forever.

Conscience—the voice that tells you not to do something after you have done it.

Coach—a fellow who will gladly lay down your life for the school.

Good sport—one who will always let you have your own way.

Hypocrite—the student who comes to an eight o'clock class with a smile on his face.

Pessimist—One who sees things as they are.

Highbrow—a person educated beyond his intelligence.

—Harpers Harp

Students at Oklahoma A. and M. College can walk on dry steam-lined sidewalks even on icy, slippery days. When college engineers designed the underground system of laying steam heating lines between buildings they were placed underneath some of the main intersecting sidewalks. The steam pipes keep ice or wet spots from collecting on the walks.—(A.C.P.)

"Do you believe in higher education?"

"Well, from the letters we get

in the pots was covered with two thicknesses of oil cloth to make sure that there was only a negligible amount of evaporation of water from the earth.

Two New Minerals Found by Chile Expedition

Washington.—Two new and rare minerals—antofagastite and bandylite—discovered by a joint Smithsonian institution-Harvard expedition to Chile, has just been added to the list of about 1,200 known rock components.

Lichen-like greenish crusts found on rocks brought back from the district of Antofagasta, Chile, by Mark C. Bandy, leader of the expedition, were found to be copper chloride, a common substance in chemical laboratories, but never before found in nature. This mineral has been named antofagastite by Drs. Charles Palache of Harvard and W. F. Foshag of the national museum.

Minute blue crystals, composed of boron, chlorine, and copper, never before discovered anywhere, have been named bandylite, in honor of their discoverer. Both of these minerals occur near the surface, in what miners call the oxidized zone. Antofagastite dissolves in water; bandylite is dissolved by ammonium hydroxide. Both rare minerals color a flame green.

Horses and Mules Cause Many Farm Accidents

Kansas City, Mo.—The old gray mare may not be what she used to be, but she still has plenty of kick left. Many farmers throughout the length and breadth of the land will bear forever the imprint of her irate hoofs.

For horses, mules and other animals are second on the list of causes of accidents on the farm, J. C. Mohler, secretary of the Kansas state board of agriculture, reported to the National Safety congress.

More than one-quarter of the 109,000 farm accidents in 1936 involved livestock, he reported to the first farm safety conference ever held. Automobiles, tractors and motorized farm machinery caused more than 38 per cent of the total number of accidents, of which nearly 5,000 were fatal.

Agriculture on the basis of these figures and on the basis of the number of people employed in it is the most hazardous industry in the United States. Unusually high accident rates among farm children were also reported.

FARM GOES STREAMLINED FOR SONNY MUSICAL HIT



Shirley Temple (right) salutes the stellar cast of her streamlined, best-of-all musical hit, "Rebecca of Sunnybrook Farm." The picture features (top down, left to right) Randolph Scott, Gloria Stuart, Jack Haley, Phyllis Brooks, Helen Westley, Alan Dinehardt, J. Edward Bromberg, Slim Summerville, Bill Robinson and The Raymond Scott Quintet. Rollamo Theatre, Sunday and Monday, April 3 and 4th.

from my boy in college, it couldn't come much higher."—Lookout.

Dr. Jay Jones, instructor in English at the University of Texas, got even with some "bright boys" in his class.

Recently he wrote on his board, "Jones will not meet his classes today."

Before Jones got to class a student made it: "Jones will not meet his classes Wednesday."

Not to be outdone, Dr. Jones raised one more letter.

The "thought for today" comes from "Sweepings" in the Los Angeles Collegian. "Remember ... Puppy love is the beginning of a dog's life!"

Lois Mae—But Billy, Jack is such a big boy. Did you really stand up to him?

Billy—Not all of me—just my hair.

Patents on a gadget to keep sleepy drivers awake have just issued. The device winds up like an alarm clock and is placed right under the chin where it is set off when the motorist relaxes. We might try a few in classes on the campus to determine their effectiveness.

An electric eye detects late-comers to physics classes at St. Thomas College. Even while the prof's back is turned, a person can't slip in undetected, for he must cross the light beam and when he does, a gong clangs.—S. W. Standard.

I'm going to love you until the cows come home!

Okay, fresh, but meanwhile you don't have to pet the calves.

—Gold Pan.

Cafe Patron: Why don't you shoo the flies?

Waitress: Well, it's warm today

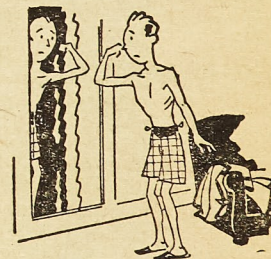
and I thought I'd just let them run around barefoot.

The telegraph cable lines across the Pacific from Hawaii to Guam and the Philippine Islands to Japan were surveyed by the U. S. Navy.

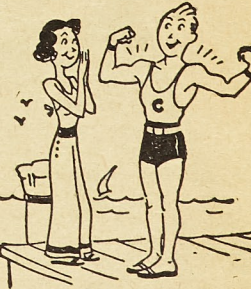
Frances—Why wouldn't you marry a widower, Helen?

Helen—Why, Frances, when I marry I want the fun of taming my man.

Skinny arms and skinny legs
Were the bane of Tony Megga.



Laughing girls all passed him by
For Tony was dull and not so spry



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SIMONS OF MO. PAC. ADDRESSES C. E.'s ON FLOOD CONTROL

Continued from page one

its policies for the immediate future. Among the things which the railroads are striving to do is to keep from reducing wages and yet retain as many employees as possible. As a means of accomplishing this objective, economy and advertisements are being fostered.

Mr. Simons explained that in 1907 he got interested in flood control work by chance in Kansas. A railroad had crossed a narrow valley, approximately one mile in width. Twenty years after the railroad was built, gas was discovered in the vicinity making the land valuable. A flood caused the loss of a considerable amount of crop and surface soil.

His first assignment was to make a survey of the situation. Similar situations followed, which led to a study of special tax assessments, and a study to determine the probable benefits of drainage and flood control improvements to the railroad problem.

Surface drainage was defined as the mode or method by which precipitation water flows off the land into the sea. The types of drainage are classified as natural and artificial. The fact was pointed out that artificial drainage development has had practically no effect on floods and is not important in consideration of flood control.

Although artificial drainage has little effect on the total system of drainage, it is responsible for the development of nearly all practical flood control methods.

Mr. Simons, a member of the A.S.

C. E. was surveying at the early age of eight, when he helped the county surveyor survey a ditch on his father's farm. In 1916 he was made Sr. Drainage Engineer for the government via Civil Service. In 1923, he was placed in charge of drainage and flood control for the U. S. Dept. of Agriculture at the Alabama Polytechnic Institute.

After the meeting, refreshments were served to the 30 members and the faculty members present.

M.S.M.

SIGMA XI LECTURE ON APRIL 15TH

Continued from page one

electron.

The local Sigma Xi members are honored to have Professor Jauncey accept their invitation to come to Rolla and hope that all those who are interested will avail themselves

of this opportunity to hear Professor Jauncey discuss some of his own research.

M.S.M.

ALUMNI NEWS

Roy E. Swift, '34, formerly with Golden Anchor Mining Co., Burgdorf, Idaho, is working at the Murchie mine of the Newmont Mining Corporation in Nevada City, Calif.

W. A. Gallemore '32, has left his position with the Alaska Juneau Gold Mining Company and is with the Hirst-Chicago Mining Company at Kimshan Cove, Alaska.

Felix Schlennovoigt '36, has been transferred from the Buffalo Creek mine of the Pittsburgh Limestone Corporation, where he was plant engineer, to the office of the assistant general manager of the company.

R. A. Wagstaff '13, has left the

Tacoma plant of the American Smelting and Refining Company and is in the office of the general manager of the western department at Salt Lake City. Mr. Wagstaff spent the past six months in Southern California, convalescing after an operation from which he is now fully recovered.

"Superstructures in Alloy Systems", a paper dealing with the theory and the effect of superstructures in alloys on their electrical, mechanical and magnetic properties, is the title of a paper written by Foster C. Nix 25, of the Bell Telephone Laboratories. This paper was presented at Symposium on the Structure of Metallic Phases Held by the Physics Department of Cornell University, Ithaca, New York, July, 1937; and published in Journal of Applied Physics, Vol. 8, pp. 783-794, December, 1937.

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